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## In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-39. (Cancelled)

40. (Currently Amended) A semiconductor device comprising:

a silicon substrate;

a gallium nitride material region formed over the silicon substrate;

a first electrical contact formed over a portion of the gallium nitride material region; and

a second electrical contact formed over a portion of the gallium nitride material region;

<u>and</u>

wherein the semiconductor device has at least one via extending from a backside <u>first</u> side of the semiconductor device <u>and having electrically conductive material formed therein, the electrically conductive material being electrically connected to the first electrical contact.</u>

- 41. (Original) The semiconductor device of claim 40, wherein the first electrical contact is formed over a first portion of the gallium nitride material region and the second electrical contact is formed over a second portion of the gallium nitride material region, wherein the first portion and the second portion are on different planes.
- 42. (Original) The semiconductor device of claim 40, wherein the first electrical contact is formed over a first portion of the gallium nitride material region and the second electrical contact is formed over a second portion of the gallium nitride material region, wherein the first portion and the second portion are on the same plane.

43. (Cancelled)

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44. (Currently Amended) The semiconductor device of claim 40, further comprising a eompositionally-graded transition layer formed between the substrate and the gallium nitride material region.

45. (Currently Amended) The semiconductor device of claim 44, wherein the transition layer is compositionally-graded and further comprising a constant composition transition layer formed between the substrate and the compositionally-graded transition layer, the constant composition transition layer comprising a gallium nitride alloy, aluminum nitride, or an aluminum nitride alloy.

- 46. (Cancelled).
- 47. (Original) The semiconductor device of claim 40, wherein the semiconductor device is a light emitting device.
- 48. (Original) The semiconductor device of claim 47, wherein the semiconductor device is an LED.
- 49. (Original) The semiconductor device of claim 40, wherein the semiconductor device is a light-detecting device.

50-105. (Cancelled)

- 106. (New) The semiconductor device of claim 40, further comprising a third electrical contact.
- 107. (New) The semiconductor device of claim 106, wherein the first electrical contact is a source electrode, the second electrical contact is a drain electrode, and the third electrical contact is a gate electrode.

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108. (New) The semiconductor device of claim 40, wherein the at least one via extends from a backside of the semiconductor device.

109. (New) The semiconductor device of claim 40, wherein the electrical contact comprises a first material and a layer of a second material, different than the first material, is formed between a portion of the electrical contact and a sidewall of the via.

- 110. (New) The semiconductor device of claim 109, wherein the first material is gold.
- 111. (New) The semiconductor device of claim 40, wherein the electrically conductive material comprises titanium and gold.
- 112. (New) The semiconductor device of claim 40, wherein the device is a transistor.
- 113. (New) The semiconductor device of claim 40, further comprising at least one non-conducting layer formed between the substrate and the gallium nitride material region.
- 114. (New) The semiconductor device of claim 40, wherein the gallium nitride material region includes a GaN layer and an AlGaN layer formed on the GaN layer.
- 115. (New) The semiconductor device of claim 40, wherein the via extends to a source region of the device.
- 116. (New) The semiconductor device of claim 40, wherein the via extends to the gallium nitride material region.

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